

Are you looking for a funded PhD in the field of Data Analytics and Recommender Systems? You have skills and/or interest in topics like sequential data mining, fairness in AI and/or recommender systems, and you have a high interest in research and development?

If so, we are looking forward to meeting you!

As part of a large research project funded by FFG, we offer 1 PhD position on a very innovative research topic:

PHD in Data Analytics and Recommender Systems with focus on Trustworthy AI (w/m/d)

38.5h/w (full-time) in Graz, 3 years (2023-2025)

Your Tasks:

This PhD topic investigates the realization of **fairness- and sequence-aware data analytics methods and recommender systems**. Thus, based on the digital traces of interactions recorded in different environments (e.g., learning portals, multimedia environments such as music streaming services and immersive spaces created by digital twins). You will **study and model temporal and contextual dependencies** between these interactions to develop novel algorithms for next-interaction recommendations and for recommendations of interaction-sequences. Additionally, **principles of trustworthy AI with a focus on fairness and biases** will be investigated to ensure unbiased and fair analytics and recommendations.

The dissertation work will be carried out in the **recently established Fair-AI research area led by Dr. Dominik Kowald, Dr. Emanuel Lacic, and Dr. Simone Kopeinik** (formally known as Social Computing). Additionally, the dissertation will be embedded and supervised at the Doctoral School of Computer Science at the Graz University of Technology.

Your Qualifications:

- Master's degree in Computer Science, Information and Computer Engineering, Mathematics, or similar
- Good knowledge of machine learning and data analytics, knowledge in recommender systems is a plus
- Experience and practical proficiency with programming languages and tools (e.g., Python, Git)
- Analytical thinking as well as independent and structured work
- Excellent communication and teamwork skills
- Very good knowledge of English, both spoken and written

We Offer:

- Excellent work-life-balance (flexible working plan) and home office
- A dynamic work environment with highly qualified and motivated colleagues
- Comprehensive support for your dissertation project at Graz University of Technology
- Dynamic, creative and multicultural team
- Company team events, health management, public transport voucher and much more
- Exciting possibilities for professional and personal development

We are required by law to specify the minimum gross salary, which is according to the university salary scheme with a master's degree for a full-time position 3,058.60 Euro gross per month (14 times per year).

Please submit your application with a motivational statement, a detailed CV and a current transcript of records to career@know-center.at

We are looking forward to your application!